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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10826160
Filing Date	2004-04-15
First Named Inventor	Hua-Jun Zeng
Art Unit	2168
Examiner Name	Aaron J. Sanders
Attorney Docket Number	MS1-1892US

**U.S.PATENTS**

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	5442778		1995-08-15	Pedersen, ; et al.	
	2	5819258		1998-10-06	Vaithyanathan, ; et al.	
	3	5845278		1998-12-01	Kirsch, ; et al.	
	4	6006225		1999-12-21	Bowman, ; et al.	
	5	6188776		2001-02-13	Covell, ; et al.	
	6	6226408		2001-05-01	Sirosh	
	7	6298351		2001-10-02	Castelli, ; et al.	
	8	6400828		2002-06-04	Covell, ; et al.	

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9	6556983		2003-04-29	Altschuler, ; et al.	
10	6628821		2003-09-30	Covell, ; et al.	
11	6697998		2004-02-24	Damerau, ; et al.	
12	6772120		2004-08-03	Moreno, ; et al.	
13	6892193		2005-05-10	Bolle, ; et al.	
14	6944602		2005-09-13	Cristianini	
15	7136876		2006-11-14	Adar, ; et al.	
16	5361628		1994-11-08	Marko, ; et al.	

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**U.S.PATENT APPLICATION PUBLICATIONS**

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	1	20030200198	A1	2003-10-23	Chandrasekar, Raman; et al.	

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2	20040117189	A1	2004-06-17	Bennett, Ian M.	
3	20040249808	A1	2004-12-09	Azzam, Saliha; et al.	
4	20050216443	A1	2005-09-29	Morton, Michael Scott; et al.	

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	1	Chen, et al., "Labeling Unclustered Categorical data into clusters based on the important attribute values", pp 1-8	<input type="checkbox"/>
	2	Costa, et al, "Cluster analysis using self-organizing maps and image processing techniques", IEEE, Vol. 5, 1999, pp 367-372	<input type="checkbox"/>
	3	Dara, et al., "Clustering unlabeled data with SOMs improves classification of labeled real-world data", IJCNN, Vol. 3, 2002, pp 2237-2242	<input type="checkbox"/>

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4	Dasgupta, et al, "Homotopy-Based Semi-supervised hidden markov tree for texture analysis", IEEE, Vol. 2, 2006, pp 97-100	<input type="checkbox"/>
5	Grira, et al., "Semi-supervised image database categorization using pairwise constraints", IEEE, Vol. 3, 2005, pp 1228-1231	<input type="checkbox"/>
6	Gutfinger, et al., "Robust classifiers by mixed adaptation", IEEE, Vol. 13, 1991, pp 552-567	<input type="checkbox"/>
7	Handl, et al., "Semi-supervised feature selection via multiobjective optimization", IJCNN, 2006, pp 3319-3326	<input type="checkbox"/>
8	Jean, et al, "A robust semi-supervised EM-based clustering algorithm with a reject option", Vol. 3, pp 399-402	<input type="checkbox"/>
9	Jespersen, et al., "Evaluating the Markov Assumption for Web Usage Mining", ACM, 2003, pp 82-89	<input type="checkbox"/>
10	Jimenez, et al., "The Influence of Semantics in IR using LSI and K-means Clustering Techniques", retrieved on May 8, 2007, at << <a href="http://portal.acm.org/citation.cfm?id=963656&amp;jmp=abstract&amp;coll=ACM&amp;dl=ACM&amp;CFID..&gt;&gt;">http://portal.acm.org/citation.cfm?id=963656&amp;jmp=abstract&amp;coll=ACM&amp;dl=ACM&amp;CFID..&gt;&gt;</a> , ACm, Vol. 19, 2003, pp 278-284	<input type="checkbox"/>
11	Kang, et al., "Categorization and Keyword identificaitoj of unlabeled documents", IEEE, 2005, pp 1-4	<input type="checkbox"/>
12	Keswani et al. "Text classification with Enhanced Semi-Supervised Fuzzy Clustering", IEEE, Vol. 1, 2002, pp 621-626	<input type="checkbox"/>
13	Lange, et al., "Learning with constrained and unlabelled data", IEEE, Vol. 1, 2005, pp 731-738	<input type="checkbox"/>
14	Lee, et al., "Equilibrium-based support vector machine for semisupervised classification", IEEE, 2007, pp 1-1	<input type="checkbox"/>

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15	Li, "Constrained Minimum cut for classification using labeled and unlabeled data", IEEE, Vol. 2, 2001, pp 597-602	<input type="checkbox"/>
16	Li, et al., "Research and Design of an Efficient Collaborative Filtering Predication Algorithm", IEEE, 2003, pp 171-174	<input type="checkbox"/>
17	Mahajan, et al, "Improved Topic-Dependent Language Modeling Using Information Retrieval Techniques", IEEE, 1999, pp 541-544	<input type="checkbox"/>
18	Morii, "A Generalized K-Means Algorithm with semi-supervised weight coefficients", ICPR, Vol. 3, 2006, pp 198-201	<input type="checkbox"/>
19	Myka, et al., "On Automatic Similarity Linking in Digital Libraries", IEEE, 1997, 278-283	<input type="checkbox"/>
20	Qin, et al., "Subspace Clustering and Label propagation for active feedback in image retrieval", MMM, 2005, pp 172-179	<input type="checkbox"/>
21	Santos, "Biased clustering methods for image classification", SIBGRAPI, 1998, pp 278-285	<input type="checkbox"/>
22	Shimosaka, et al., "Efficient margin-based query learning on action classification", IEEE, 2006, pp 2778-2784	<input type="checkbox"/>
23	Tang, et al., "Semi-Supervised Clustering of corner-oriented attributed Graphs", Hybird intelligent Systems, 2006, pp 33-33	<input type="checkbox"/>
24	Wu, et al., "Clustering-training for data stream mining", IEEE, 2006, pp 653-656	<input type="checkbox"/>

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**EXAMINER SIGNATURE**

Examiner Signature	/Aaron Sanders/	Date Considered	06/04/2008
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